

DONGLAI XIANG

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EDUCATION

Ph.D. in Robotics, Carnegie Mellon University	2019 - 2023
<i>Advisor: Prof. Jessica Hodgins</i>	
M. S. in Robotics, Carnegie Mellon University	2017 - 2019
<i>Advisor: Prof. Yaser Sheikh</i>	
B. Eng. in Electronic Engineering, Tsinghua University	2013 - 2017
<i>With honor (5/200+)</i>	

WORK EXPERIENCE

Research Scientist, Nvidia Research	2023.10 - now
<i>Area: dynamic generation and modeling.</i>	
Visiting Researcher, Meta Reality Labs Research, Pittsburgh	2021.4 - 2023.6
and Research Intern, Facebook Reality Labs Research, Pittsburgh	2020.5 - 2020.12
<i>Featured in Meta Connect 2022 and covered in media by UploadVR, MIXED, 80 Level, and Inside etc.</i>	
<i>Work on dynamic garment modeling for photorealistic telepresence, mentored by Chenglei Wu and Timur Bagautdinov</i>	
Research Intern, Facebook AI Research (FAIR), Pittsburgh	2019.5 - 2019.8
<i>Work on body shape estimation and garment reconstruction, mentored by Jessica Hodgins</i>	
Visiting Scholar, University of Michigan	2016.7 - 2016.9
<i>Work on single-image depth estimation, mentored by Weifeng Chen and Jia Deng</i>	

PUBLICATION

- Y. Zheng, Q. Zhao, G. Yang, W. Yifan, **D. Xiang**, F. Dubost, D. Lagun, T. Beeler, F. Tombari, L. Guibas, G. Wetzstein. "PhysAvatar: Learning the Physics of Dressed 3D Avatars from Visual Observations." European Conference on Computer Vision (ECCV) 2024
- J. Guo, F. Prada, **D. Xiang**, J. Romero, C. Wu, H.S. Park, T. Shiratori, S. Saito. "Diffusion Shape Prior for Wrinkle-Accurate Cloth Registration." International Conference on 3D Vision (3DV) 2024
- **D. Xiang**, F. Prada, Z. Cao, K. Guo, C. Wu, J. Hodgins, T. Bagautdinov. "Drivable Avatar Clothing: Faithful Full-Body Telepresence with Dynamic Clothing Driven by Sparse RGB-D Input." SIGGRAPH Asia 2023
- **D. Xiang**, T. Bagautdinov, T. Stuyck, F. Prada, J. Romero, W. Xu, S. Saito, J. Guo, B. Smith, T. Shiratori, Y. Sheikh, J. Hodgins, C. Wu. "Dressing Avatars: Deep Photorealistic Appearance for Physically Simulated Clothing." ACM Transaction on Graphics (SIGGRAPH Asia) 2022
- O. Halimi, T. Stuyck, **D. Xiang**, T. Bagautdinov, H. Wen, R. Kimmel, T. Shiratori, C. Wu, Y. Sheikh, and F. Prada. "Pattern-Based Cloth Registration and Sparse-View Animation." ACM Transaction on Graphics (SIGGRAPH Asia) 2022
- **D. Xiang**, F. Prada, T. Bagautdinov, W. Xu, Y. Dong, H. Wen, J. Hodgins, C. Wu. "Modeling Clothing as a Separate Layer for an Animatable Human Avatar." ACM Transaction on Graphics (SIGGRAPH Asia) 2021
- T. Fan, K. V. Alwala, **D. Xiang**, W. Xu, T. Murphey, M. Mukadam. "Revitalizing Optimization for 3D Human Pose and Shape Estimation: A Sparse Constrained Formulation." International Conference on Computer Vision (ICCV) 2021
- **D. Xiang**, F. Prada, C. Wu, J. Hodgins. "MonoClothCap: Towards Temporally Coherent Clothing Capture from Monocular RGB Video." International Conference on 3D Vision (3DV) 2020 (**Best Paper Honorable Mention**)
- E. Ng, **D. Xiang**, H. Joo, K. Grauman. "You2Me: Inferring Body Pose in Egocentric Video via First and Second Person Interactions." Conference on Computer Vision and Pattern Recognition (CVPR) 2020

- G. Hidalgo, Y. Raaj, H. Idrees, **D. Xiang**, H. Joo, T. Simon, Y. Sheikh. "Single-Network Whole-Body Pose Estimation." International Conference on Computer Vision (ICCV) 2019
- **D. Xiang**, H. Joo, Y. Sheikh. "Monocular Total Capture: Posing Face, Body, and Hands in the Wild." Conference on Computer Vision and Pattern Recognition (CVPR) 2019 (Oral)
- W. Chen, **D. Xiang**, J. Deng. "Surface Normals in the Wild". International Conference on Computer Vision (ICCV) 2017
- **D. Xiang***, Q. Guo*, Y. Xia. Robust Text Detection with Vertically-Regressed Proposal Network. European Conference on Computer Vision (ECCV) Workshop 2016 (Oral)

AWARDS

Outstanding Reviewer, CVPR 2021, ICCV 2021

Best Paper Honorable Menton, 3DV 2020

SERVICES

Conference Reviewer

Since 2020

CVPR, ICCV, WACV, SIGGRAPH Asia, NeurIPS, ICLR

Journal Reviewer

Since 2020

TIP, IJCV, TPAMI

Program Committee

AAAI Student Program

2023, 2024